ELSEVIER

Hearing Research 98 (1996) 183–184

HEARING RESEARCH

Author Index

Abdala, C., Sininger, Y.S., Ekelid, M. and Zeng, F.-G.
Distortion product otoacoustic emission suppression tuning curves in human adults and neonates (98) 38

Benos, D.J., see Mizuta, K. (98) 180
Berlin, C.I., see Huang, J.-M. (98) 18
Bobbin, R.P., see Chen, C. (98) 9
Bobbin, R.P., see Skellett, R.A. (98) 68
Butterfield, D.A., see Clerici, W.J. (98) 116

Chen, C., LeBlanc, C. and Bobbin, R.P.
Differences in cholinergic responses from outer hair cells of rat and guinea pig (98) 9
Chen, K., see Waller, H.J. (98) 169
Chen, L., Trautwein, P.G., Shero, M. and Salvi, R.J.
Tuning, spontaneous activity and tonotopic map in chicken cochlear ganglion neurons following sound-induced hair cell loss and regeneration (98) 152
Clerici, W.J., Hensley, K., DiMartino, D.L. and Butterfield, D.A.
Direct detection of ototoxicant-induced reactive oxygen species generation in cochlear explants (98) 116
Crist, J.R., see Skellett, R.A. (98) 68

DiMartino, D.L., see Clerici, W.J. (98) 116

Ekelid, M., see Abdala, C. (98) 38

Fallon, M., see Skellett, R.A. (98) 68
Felsheim, C. and Ostwald, J.
Responses to exponential frequency modulations in the rat inferior colliculus (98) 137
Frank, G. and Kössl, M.
The acoustic two-tone distortions 2f1-f2 and f2-f1 and their possible relation to changes in the operating point of the cochlear amplifier (98) 104

Godfrey, D.A., see Waller, H.J. (98) 169
Guth, P.S. and Norris, C.H.
The hair cell acetylcholine receptors: a synthesis (98) 1

Haller, M., see Michie, P.T. (98) 54
Happe, H.K., see Hiel, H. (98) 29
Henley, C.M., Weatherly, R.A., Martin, G.K. and Lonsbury-Martin, B.
Sensitive developmental periods for kanamycin ototoxic effects on distortion-product otoacoustic emissions (98) 93
Hensley, K., see Clerici, W.J. (98) 116
Hiel, H., Happe, H.K., Warr, W.B. and Morley, B.J.
Regional distribution of a creatine transporter in rat auditory brainstem: an in-situ hybridization study (98) 29

Holloway, L.A., see Pfingst, B.E. (98) 77
Huang, J.-M., Money, M.K., Berlin, C.I. and Keats, B.J.B.
Phenotypic patterns of distortion product otoacoustic emission in inbred and F_1 hybrid hearing mouse strains (98) 18

Iwasa, K.H., see Mizuta, K. (98) 180

Keats, B.J.B., see Huang, J.-M. (98) 18
Kössl, M., see Frank, G. (98) 104

LeBlanc, C., see Chen, C. (98) 9
LePage, E.L., see Michie, P.T. (98) 54
Lichtenstein, V. and Stapells, D.R.
Frequency-specific identification of hearing loss using transient-evoked otoacoustic emissions to clicks and tones (98) 125
Lim, D.J., see Mizuta, K. (98) 180
Long, G.R., Van Dijk, P. and Wit, H.P.
Temperature dependence of spontaneous otoacoustic emissions in the edible frog (*Rana esculenta*) (98) 22
Lonsbury-Martin, B., see Henley, C.M. (98) 93

Martin, G.K., see Henley, C.M. (98) 93
Michie, P.T., LePage, E.L., Solowij, N., Haller, M. and Terry, L.
Evoked otoacoustic emissions and auditory selective attention (98) 54
Mizuta, K., Iwasa, K.H., Tachibana, M., Benos, D.J. and Lim, D.J.
Amiloride-sensitive Na^+ channel-like immunoreactivity in the luminal membrane of some non-sensory epithelia of the inner ear (Hear. Res. 88 (1995) 199–205) (98) 180
Money, M.K., see Huang, J.-M. (98) 18
Morley, B.J., see Hiel, H. (98) 29

Norris, C.H., see Guth, P.S. (98) 1

Ostwald, J., see Felsheim, C. (98) 137

Pfingst, B.E., Holloway, L.A. and Razzaque, S.A.
Effects of pulse separation on detection thresholds for electrical stimulation of the human cochlea (98) 77

Razzaque, S.A., see Pfingst, B.E. (98) 77

Salvi, R.J., see Chen, L. (98) 152
Segenhout, H.M., see Wit, H.P. (98) 165
Shero, M., see Chen, L. (98) 152
Sininger, Y.S., see Abdala, C. (98) 38
Skellett, R.A., Crist, J.R., Fallon, M. and Bobbin, R.P.
Chronic low-level noise exposure alters distortion product otoacoustic emissions (98) 68
Solowij, N., see Michie, P.T. (98) 54
Stapells, D.R., see Lichtenstein, V. (98) 125

Tachibana, M., see Mizuta, K. (98) 180
Terry, L., see Michie, P.T. (98) 54
Trautwein, P.G., see Chen, L. (98) 152

Van Dijk, P., see Long, G.R. (98) 22
Van Dijk, P., see Wit, H.P. (98) 165

Waller, H.J., Godfrey, D.A. and Chen, K.
Effects of parallel fiber stimulation on neurons of rat dorsal cochlear nucleus (98) 169
Warr, W.B., see Hiel, H. (98) 29
Weatherly, R.A., see Henley, C.M. (98) 93
Wit, H.P., Van Dijk, P. and Segenhout, H.M.
Frequency response for electromotility of isolated outer hair cells of the guinea pig (98) 165
Wit, H.P., see Long, G.R. (98) 22

Zeng, F.-G., see Abdala, C. (98) 38

ELSEVIER

Hearing Research 98 (1996) 185–187

HEARING RESEARCH

Subject Index

Acetylcholine
Receptor; Hair cell; Inner ear; Auditory; Vestibular (Guth, P.S. (98) 1)

Cochlea; Receptor; Voltage-clamp; Patch-clamp (Chen, C. (98) 9)

Acoustic trauma
Chicken; Hair cell regeneration; Tuning curve; Spontaneous activity; Frequency-place map (Chen, L. (98) 152)

Acoustic two-tone distortion
Low-frequency biasing; Salicylate; DC current; Cochlear amplifier; Gain; Operating point (Frank, G. (98) 104)

Auditory
Acetylcholine; Receptor; Hair cell; Inner ear; Vestibular (Guth, P.S. (98) 1)

Auditory efferent pathway
Evoked otoacoustic emission; Selective attention (Michie, P.T. (98) 54)

Auditory system
FM; Modulation rate tuning; Direction selective; Single unit (Felsheim, C. (98) 137)

Cartwheel cell
Slice; Spontaneous activity; Glutamate; Non-NMDA receptor; Fusiform cell (Waller, H.J. (98) 169)

CBA/J
Curly-tail mouse; *Deafness* mouse; Genotype; Heterosis; Hybrid; Inbred; MOLF/Rk; Otoacoustic emission; Phenotype (Huang, J.-M. (98) 18)

Central auditory system
Creatine transporter; In-situ hybridization; High-energy phosphate metabolism (Hiel, H. (98) 29)

Chicken
Acoustic trauma; Hair cell regeneration; Tuning curve; Spontaneous activity; Frequency-place map (Chen, L. (98) 152)

Click
Evoked otoacoustic emission; Tone; Sensorineural hearing loss; Test performance (Lichtenstein, V. (98) 125)

Cochlea
Acetylcholine; Receptor; Voltage-clamp; Patch-clamp (Chen, C. (98) 9)

Electron paramagnetic resonance spectrometry; Free radical; Ototoxicity; Reactive oxygen species (Clerici, W.J. (98) 116)

Wiener kernel; Length change; Motor function (Wit, H.P. (98) 165)

Cochlear amplifier
Acoustic two-tone distortion; Low-frequency biasing; Salicylate; DC current; Gain; Operating point (Frank, G. (98) 104)

Cochlear implant
Detection threshold; Electrical stimulation; Human; Pulse separation; Psychophysics (Pfingst, B.E. (98) 77)

Creatine transporter
In-situ hybridization; Central auditory system; High-energy phosphate metabolism (Hiel, H. (98) 29)

Curly-tail mouse
CBA/J; *Deafness* mouse; Genotype; Heterosis; Hybrid; Inbred; MOLF/Rk; Otoacoustic emission; Phenotype (Huang, J.-M. (98) 18)

DC current
Acoustic two-tone distortion; Low-frequency biasing; Salicylate; Cochlear amplifier; Gain; Operating point (Frank, G. (98) 104)

***Deafness* mouse**
CBA/J; Curly-tail mouse; Genotype; Heterosis; Hybrid; Inbred; MOLF/Rk; Otoacoustic emission; Phenotype (Huang, J.-M. (98) 18)

Detection threshold
Cochlear implant; Electrical stimulation; Human; Pulse separation; Psychophysics (Pfingst, B.E. (98) 77)

Direction selective
Auditory system; FM; Modulation rate tuning; Single unit (Felsheim, C. (98) 137)

Distortion product
Otoacoustic emission; Suppression; Tuning curve (Abdala, C. (98) 38)

Distortion-product emission
Kanamycin; Neonatal rat; Ototoxicity (Henley, C.M. (98) 93)

Distortion product otoacoustic emission
Noise exposure; Outer hair cell (Skellett, R.A. (98) 68)

Electrical stimulation
Cochlear implant; Detection threshold; Human; Pulse separation; Psychophysics (Pfingst, B.E. (98) 77)

Electron paramagnetic resonance spectrometry
Cochlea; Free radical; Ototoxicity; Reactive oxygen species (Clerici, W.J. (98) 116)

Evoked otoacoustic emission
Auditory efferent pathway; Selective attention (Michie, P.T. (98) 54)

Click; Tone; Sensorineural hearing loss; Test performance (Lichtenstein, V. (98) 125)

FM
Auditory system; Modulation rate tuning; Direction selective; Single unit (Felsheim, C. (98) 137)

Free radical
Cochlea; Electron paramagnetic resonance spectrometry; Ototoxicity; Reactive oxygen species (Clerici, W.J. (98) 116)

Frequency-place map
Chicken; Acoustic trauma; Hair cell regeneration; Tuning curve; Spontaneous activity (Chen, L. (98) 152)

Frog
Spontaneous otoacoustic emission; Temperature (Long, G.R. (98) 22)

Fusiform cell
Slice; Spontaneous activity; Glutamate; Non-NMDA receptor; Cartwheel cell (Waller, H.J. (98) 169)

Gain
Acoustic two-tone distortion; Low-frequency biasing; Salicylate; DC current; Cochlear amplifier; Operating point (Frank, G. (98) 104)

Genotype
CBA/J; Curly-tail mouse; *Deafness* mouse; Heterosis; Hybrid; Inbred; MOLF/Rk; Otoacoustic emission; Phenotype (Huang, J.-M. (98) 18)

Glutamate
Slice; Spontaneous activity; Non-NMDA receptor; Cartwheel cell; Fusiform cell (Waller, H.J. (98) 169)

Hair cell
Acetylcholine; Receptor; Inner ear; Auditory; Vestibular (Guth, P.S. (98) 1)

Hair cell regeneration
Chicken; Acoustic trauma; Tuning curve; Spontaneous activity; Frequency-place map (Chen, L. (98) 152)

Heterosis
CBA/J; Curly-tail mouse; *Deafness* mouse; Genotype; Hybrid; Inbred; MOLF/Rk; Otoacoustic emission; Phenotype (Huang, J.-M. (98) 18)

High-energy phosphate metabolism
Creatine transporter; In-situ hybridization; Central auditory system (Hiel, H. (98) 29)

Human
Cochlear implant; Detection threshold; Electrical stimulation; Pulse separation; Psychophysics (Pfingst, B.E. (98) 77)

Hybrid
CBA/J; Curly-tail mouse; *Deafness* mouse; Genotype; Heterosis; Inbred; MOLF/Rk; Otoacoustic emission; Phenotype (Huang, J.-M. (98) 18)

Inbred
CBA/J; Curly-tail mouse; *Deafness* mouse; Genotype; Heterosis; Hybrid; MOLF/Rk; Otoacoustic emission; Phenotype (Huang, J.-M. (98) 18)

Inner ear
Acetylcholine; Receptor; Hair cell; Auditory; Vestibular (Guth, P.S. (98) 1)

In-situ hybridization
Creatine transporter; Central auditory system; High-energy phosphate metabolism (Hiel, H. (98) 29)

Kanamycin
Neonatal rat; Distortion-product emission; Ototoxicity (Henley, C.M. (98) 93)

Length change
Wiener kernel; Cochlea; Motor function (Wit, H.P. (98) 165)

Low-frequency biasing
Acoustic two-tone distortion; Salicylate; DC current; Cochlear amplifier; Gain; Operating point (Frank, G. (98) 104)

Modulation rate tuning
Auditory system; FM; Direction selective; Single unit (Felsheim, C. (98) 137)

MOLF/Rk
CBA/J; Curly-tail mouse; *Deafness* mouse; Genotype; Heterosis; Hybrid; Inbred; Otoacoustic emission; Phenotype (Huang, J.-M. (98) 18)

Motor function
Wiener kernel; Cochlea; Length change (Wit, H.P. (98) 165)

Neonatal rat
Kanamycin; Distortion-product emission; Ototoxicity (Henley, C.M. (98) 93)

Noise exposure
Distortion product otoacoustic emission; Outer hair cell (Skellett, R.A. (98) 68)

Non-NMDA receptor
Slice; Spontaneous activity; Glutamate; Cartwheel cell; Fusiform cell (Waller, H.J. (98) 169)

Operating point
Acoustic two-tone distortion; Low-frequency biasing; Salicylate; DC current; Cochlear amplifier; Gain (Frank, G. (98) 104)

Otoacoustic emission
CBA/J; Curly-tail mouse; *Deafness* mouse; Genotype; Heterosis; Hybrid; Inbred; MOLF/Rk; Phenotype (Huang, J.-M. (98) 18)

Distortion product; Suppression; Tuning curve (Abdala, C. (98) 38)

Ototoxicity
Kanamycin; Neonatal rat; Distortion-product emission (Henley, C.M. (98) 93)

Cochlea; Electron paramagnetic resonance spectrometry; Free radical; Reactive oxygen species (Clerici, W.J. (98) 116)

Outer hair cell
Noise exposure; Distortion product otoacoustic emission (Skellett, R.A. (98) 68)

Patch-clamp
Cochlea; Acetylcholine; Receptor; Voltage-clamp (Chen, C. (98) 9)

Phenotype
CBA/J; Curly-tail mouse; *Deafness* mouse; Genotype; Heterosis; Hybrid; Inbred; MOLF/Rk; Otoacoustic emission (Huang, J.-M. (98) 18)

Psychophysics
Cochlear implant; Detection threshold; Electrical stimulation; Human; Pulse separation (Pfingst, B.E. (98) 77)

Pulse separation
Cochlear implant; Detection threshold; Electrical stimulation; Human; Psychophysics (Pfingst, B.E. (98) 77)

Reactive oxygen species
Cochlea; Electron paramagnetic resonance spectrometry; Free radical; Ototoxicity (Clerici, W.J. (98) 116)

Receptor
Acetylcholine; Hair cell; Inner ear; Auditory; Vestibular (Guth, P.S. (98) 1)

Cochlea; Acetylcholine; Voltage-clamp; Patch-clamp (Chen, C. (98) 9)

Salicylate
Acoustic two-tone distortion; Low-frequency biasing; DC current; Cochlear amplifier; Gain; Operating point (Frank, G. (98) 104)

Selective attention
Evoked otoacoustic emission; Auditory efferent pathway (Michie, P.T. (98) 54)

Sensorineural hearing loss
Evoked otoacoustic emission; Click; Tone; Test performance (Lichtenstein, V. (98) 125)

Single unit
Auditory system; FM; Modulation rate tuning; Direction selective (Felsheim, C. (98) 137)

Slice
Spontaneous activity; Glutamate; Non-NMDA receptor; Cartwheel cell; Fusiform cell (Waller, H.J. (98) 169)

Spontaneous activity
Chicken; Acoustic trauma; Hair cell regeneration; Tuning curve; Frequency-place map (Chen, L. (98) 152)

Slice; Glutamate; Non-NMDA receptor; Cartwheel cell; Fusiform cell (Waller, H.J. (98) 169)

Spontaneous otoacoustic emission
Frog; Temperature (Long, G.R. (98) 22)

Suppression
Otoacoustic emission; Distortion product; Tuning curve (Abdala, C. (98) 38)

Temperature
Frog; Spontaneous otoacoustic emission (Long, G.R. (98) 22)

Test performance
Evoked otoacoustic emission; Click; Tone; Sensorineural hearing loss (Lichtenstein, V. (98) 125)

Tone
Evoked otoacoustic emission; Click; Sensorineural hearing loss; Test performance (Lichtenstein, V. (98) 125)

Tuning curve
Otoacoustic emission; Distortion product; Suppression (Abdala, C. (98) 38)

Chicken; Acoustic trauma; Hair cell regeneration; Spontaneous activity; Frequency-place map (Chen, L. (98) 152)

Vestibular
Acetylcholine; Receptor; Hair cell; Inner ear; Auditory (Guth, P.S. (98) 1)

Voltage-clamp
Cochlea; Acetylcholine; Receptor; Patch-clamp (Chen, C. (98) 9)

Wiener kernel
Cochlea; Length change; Motor function (Wit, H.P. (98) 165)

ELSEVIER

Hearing Research 98 (1996) 188–189

HEARING RESEARCH

Contents of Volume 98

Research Papers

P.S. Guth and C.H. Norris *(USA)*
The hair cell acetylcholine receptors: a synthesis 1

C. Chen, C. LeBlanc and R.P. Bobbin *(USA)*
Differences in cholinergic responses from outer hair cells of rat and guinea pig 9

J.-M. Huang, M.K. Money, C.I. Berlin and B.J.B. Keats *(USA)*
Phenotypic patterns of distortion product otoacoustic emission in inbred and F_1 hybrid hearing mouse strains 18

G.R. Long, P. Van Dijk and H.P. Wit *(USA, The Netherlands)*
Temperature dependence of spontaneous otoacoustic emissions in the edible frog (*Rana esculenta*) 22

H. Hiel, H.K. Happe, W.B. Warr and B.J. Morley *(USA)*
Regional distribution of a creatine transporter in rat auditory brainstem: an in-situ hybridization study 29

C. Abdala, Y.S. Sininger, M. Ekelid and F.-G. Zeng *(USA)*
Distortion product otoacoustic emission suppression tuning curves in human adults and neonates 38

P.T. Michie, E.L. LePage, N. Solowij, M. Haller and L. Terry *(Australia)*
Evoked otoacoustic emissions and auditory selective attention 54

R.A. Skellett, J.R. Crist, M. Fallon and R.P. Bobbin *(USA)*
Chronic low-level noise exposure alters distortion product otoacoustic emissions 68

B.E. Pfingst, L.A. Holloway and S.A. Razzaque *(USA)*
Effects of pulse separation on detection thresholds for electrical stimulation of the human cochlea 77

C.M. Henley, R.A. Weatherly, G.K. Martin and B. Lonsbury-Martin *(USA)*
Sensitive developmental periods for kanamycin ototoxic effects on distortion-product otoacoustic emissions 93

G. Frank and M. Kössl *(Germany)*
The acoustic two-tone distortions 2f1-f2 and f2-f1 and their possible relation to changes in the operating point of the cochlear amplifier 104

W.J. Clerici, K. Hensley, D.L. DiMartino and D.A. Butterfield *(USA)*
Direct detection of ototoxicant-induced reactive oxygen species generation in cochlear explants 116

V. Lichtenstein and D.R. Stapells *(USA, Canada)*
Frequency-specific identification of hearing loss using transient-evoked otoacoustic emissions to clicks and tones 125

C. Felsheim and J. Ostwald *(Germany)*
Responses to exponential frequency modulations in the rat inferior colliculus 137

L. Chen, P.G. Trautwein, M. Shero and R.J. Salvi *(USA)*
Tuning, spontaneous activity and tonotopic map in chicken cochlear ganglion neurons following sound-induced hair cell loss and regeneration 152

H.P. Wit, P. Van Dijk and H.M. Segenhout *(The Netherlands)*
Frequency response for electromotility of isolated outer hair cells of the guinea pig 165

H.J. Waller, D.A. Godfrey and K. Chen *(USA)*
Effects of parallel fiber stimulation on neurons of rat dorsal cochlear nucleus 169

Corrigendum

K. Mizuta, K.H. Iwasa, M. Tachibana, D.J. Benos and D.J. Lim *(USA)*
Amiloride-sensitive Na^+ channel-like immunoreactivity in the luminal membrane of some non-sensory epithelia of the inner ear (Hear. Res. 88 (1995) 199–205) 180

Calendar of Events 181

Author Index 183

Subject Index 185

Contents of Volume 98 188